

New Homes Checklist

Steamboat Springs/Routt County

Project or Owner's Name:

0 PROJECT SCORING TOTAL

Project Address:

Project Square Footage:

Designer Name:

Builder Name:

A. Energy		Points Earned	Community	Energy	IAQ/Health	Resources	Water
			Possible Points				
<input type="checkbox"/> 1. Meet ENERGY STAR® Performance Path Requirements							
a. Complete the ENERGY STAR® Thermal Bypass Inspection Checklist		M		M			
b. For each HERS Index below 80 (Maximum 79 points)				1			
OR							
<input type="checkbox"/> 2. Meet ENERGY STAR® Prescriptive Path Requirements (Compliance Only)							
a. Complete the ENERGY STAR® Thermal Bypass Inspection Checklist		M		M			
b. Build to ENERGY STAR® Builder Option Package (BOP) for climate zone 7		M		M			
Total Points Possible in Energy = 79		0					

B. General Requirements		Points Earned	Community	Energy	IAQ/Health	Resources	Water
			Possible Points				
<input type="checkbox"/> 1. Incorporate Checklist in Blueprints		M				M	
<input type="checkbox"/> 2. Develop Homeowner Manual of Green Features/Benefit:		M				M	
Total Points Possible in General Requirements are Mandatory		M					

C. Site		Points Earned	Community	Energy	IAQ/Health	Resources	Water
			Possible Points				
<input type="checkbox"/> 1. Protect Native Soil and Minimize Disruption of Existing Plants and Trees		M					M
<input type="checkbox"/> 2. Erosion Controls During Construction		M					M
<input type="checkbox"/> 3. Site is Within 1/4 Mile of Public Transportation or 3/4 of a Mile of a Community Center			4				
<input type="checkbox"/> 4. Recycle Green Waste						2	
a. On Site						1	
OR b. At Community Compost Center							
<input type="checkbox"/> 5. 100% Excavated Topsoil Reused on Site						1	
<input type="checkbox"/> 6. Use Recycled Content Aggregate (Minimum 25%)						1	
a. Walkway and Driveway						1	
b. Roadway Base						2	
<input type="checkbox"/> 7. 35% or More Fly Ash Content in Over 100% of Concrete Used (non foundation)							
<input type="checkbox"/> 8. Concrete Curing Process does not Include Propane or Additional Energy to Cure				3			
<input type="checkbox"/> 9. Pervious Materials							1
a. 25-50% of Hardscaped Areas							3
b. 50-100% of Hardscaped Areas							
<input type="checkbox"/> 10. No Fossil Fueled Snowmelt System				5			
<input type="checkbox"/> 11. Engineered/Vegetated Swales to Filter Stormwater Runoff							1
Total Points Possible in Site = 23		0					

D. Recycle and Reuse		Points Earned	Community	Energy	IAQ/Health	Resources	Water
			Possible Points				
<input type="checkbox"/> 1. Deconstruction Plan for Existing Building Demolition		M				M	
<input type="checkbox"/> 2. Recycle Job Site Construction Waste						2	
a. 90% Steel						2	
b. 90% Wood						2	
c. 90% Cardboard							
<input type="checkbox"/> 3. Install Built-In Recycling Center						2	
a. Built-In Recycling Center						3	
b. Built-In Composting Center							

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<input type="checkbox"/> 4. Recycled Concrete or Asphalt					1	
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Total Points Possible in Recycle and Reuse = 12

Points Earned	Community	Energy	IAQ/Health	Resources	Water
0					

E. Foundation		Possible Points				
<input type="checkbox"/> 1. Pre-Pipe Under Slab for Radon Resistant Construction	M			M		
<input type="checkbox"/> 2. Replace Portland Cement in Concrete with Recycled Flyash (Western coal) in Foundation						
a. Minimum 20% Flyash	M				M	
b. Minimum 25% Flyash					1	
<input type="checkbox"/> 3. Conditioned CrawlSpace				2		
<input type="checkbox"/> 4. Insulate Heated Garage Slabs & Perimeter (Min of R10)			2			
<input type="checkbox"/> 5. Frost-Protected Shallow Foundation (FPSF)			2			
<input type="checkbox"/> 6. Non-asphalt Based Water Proofing						1

Total Points Possible in Foundation = 8

0

F. Structural Frame & Building Envelope		Possible Points				
<input type="checkbox"/> 1. Design Energy Heels on Trusses (120% of Attic Insulation Height at Outside Edge of Exterior Wall)	M		M			
<input type="checkbox"/> 2. Low-VOC Caulk and Construction Adhesives (<70 gpl VOCs) used for All Adhesives	M			M		
<input type="checkbox"/> 3. Structure Wrapped with an Exterior Drainage Plane Barrier to Manufacturer's Specifications	M		M			
<input type="checkbox"/> 4. Sill Plate Sealed with Foam Sill Sealer	M		M			
<input type="checkbox"/> 5. Simple Footprint						
a. 10 Corners or Less			1		1	
b. 8 Corners or Less			2		2	
c. 6 Corners or Less			3		3	
d. 4 Corners or Less			4		4	
<input type="checkbox"/> 6. Building Envelope Dimensions in 2 Foot Increments					1	
<input type="checkbox"/> 7. All Framing Members Shown on Drawings in Plan and Section for Advanced Framing					1	
<input type="checkbox"/> 8. Design Roof Trusses to Accommodate Ductwork Under Insulation			1			
<input type="checkbox"/> 9. Materials Manufactured Regionally/Locally						
a. 20% within 500 miles of Routt County					2	
And/Or b. 20% from Routt County		2			2	
<input type="checkbox"/> 10. Optimal Value Engineering or Advanced Framing (Min. 3 Points)						
a. All roof and floor loads stacked over studs					1	
b. 2x6 Studs at 24-Inch On Center Framing					1	
c. Two-stud Insulated Corners			2			
d. Door and Window Headers Sized for Load					0.5	
e. Insulated headers (R-10 min.) installed on all exterior walls			2			
f. Use Only Jack and Cripple Studs Required for Load					0.5	
g. Trusses replacing rafters for 90% of roof area					2	
h. Insulate partition wall intersections during construction			2			
i. Ladder blocking for partition intersections					1	
<input type="checkbox"/> 11. Salvaged or Reclaimed Structural Materials						
a. 5% of the structural materials					2	
b. 10% of the structural materials					3	
<input type="checkbox"/> 12. Engineered Lumber for 90% of Framing						
a. Beams and Headers					2	
b. Wood I-Joists or Web Trusses for Floors					1	
c. Wood I-Joists for Roof Rafters					2	
d. Engineered or Finger-Jointed Studs for Vertical Applications					1	
<input type="checkbox"/> 13. Beetle Kill Pine Salvaged Wood for Studs		2			3	
<input type="checkbox"/> 14. FSC-Certified Wood						
a. Dimensional Studs: Minimum 40%					2	

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	Points Earned	Community	Energy	IAQ/Health	Resources	Water
b. Dimensional Studs: Minimum 70%					3	
c. Panel Products: Minimum 40%					2	
d. Panel Products: Minimum 70%					3	
<input type="checkbox"/> 15. Solid Wall Systems (Includes SIPs, ICFs, & Any Non-Stick Frame Assembly)						
a. Floors			7			
b. Walls			8			
c. Roofs			9			
<input type="checkbox"/> 16. OSB for Subfloor					1	
<input type="checkbox"/> 17. OSB for Sheathing					1	
<input type="checkbox"/> 18. Install a Rain Screen Wall System					2	
<input type="checkbox"/> 19. Roof Design Includes Overhang						
a. Minimum 24-Inch Overhang					1	
b. Minimum 30-Inch Overhang					2	
<input type="checkbox"/> 20. Recycled-Content Steel Studs used for 90% of Interior Wall Framing Only					2	
<input type="checkbox"/> 21. All Closet Headers Flat Framed					1	
Total Points Possible in Structural Frame & Building Envelope = 55		0				

G. Exterior Finish		Possible Points				
<input type="checkbox"/> 1. Select Durable and Non-Combustible ≥ 40 year Roofing Materials	M				M	
<input type="checkbox"/> 2. Recycled-Content (No Virgin Plastic) Decking for all non-structural Decking					3	
<input type="checkbox"/> 3. FSC-Certified Wood Decking					2	
<input type="checkbox"/> 4. Durable and Non-Combustible Siding Materials used on over 50% of Wall Surfaces					2	
<input type="checkbox"/> 5. FSC Certified Cedar Shakes					1	
<input type="checkbox"/> 6. Beetle Kill Pine Salvaged Wood for Siding		1			1	
<input type="checkbox"/> 7. Stone Exterior Finish Quarried within 500 Mile Radius		1			2	
<input type="checkbox"/> 8. Reclaimed Exterior Trim/Siding					1	
<input type="checkbox"/> 9. Recycled Content Roofing for 50-100% of Roof						
a. Recycled Content					1	
OR b. 75% Recycled Steel Roofing					2	
<input type="checkbox"/> 10. Vegetated Roof for 20% or More of Roof Area					5	
<input type="checkbox"/> 11. Recycled and/or Recovered-content Fascia, Soffit and Trim					1	
<input type="checkbox"/> 12. Fiber Cement Fascia and Soffit					1	
Total Points Possible in Exterior Finish = 19		0				

H. Windows and Doors		Possible Points				
<input type="checkbox"/> 1. Design Entry with Airlock			2			
<input type="checkbox"/> 2. R-5 Insulated Exterior Doors			2			
<input type="checkbox"/> 3. Recycled and/or Recovered Content Interior Doors (100%)					1	
<input type="checkbox"/> 4. Insulating Window Shades Installed (> 75% of all exterior windows R-3 or higher)			1			
Total Points Possible in Windows and Doors = 6		0				

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I. Plumbing		Possible Points				
<input type="checkbox"/> 1. Install R-15 Insulated Tank Water Heaters If Tank Heaters are Used	M		M			
<input type="checkbox"/> 2. Distribute Domestic Hot Water Efficiently (Min 3 pts)						
a. Insulate All Hot Water Pipes with R-6 or better			1			
b. Insulate Cold Water Pipes 8 feet from the Water Heater with R-6 Insulation			1			
c. Use Central Core Plumbing (trunk and branch)						1
And/Or d. Use Structured Plumbing with Recirculation Loop and On Demand Pump			2			
OR e. Use Engineered Parallel Piping						3
<input type="checkbox"/> 3. Drain Waste Heat Recovery System			2			
<input type="checkbox"/> 4. Install Only High Efficiency Toilets (Dual-Flush or ≤ 1.3 gpf)						3
<input type="checkbox"/> 5. Composting Toilets						5
<input type="checkbox"/> 6. ≤ 2.0 gpm or Less Showerheads Installed						3
<input type="checkbox"/> 7. Grey Water Reuse for Toilets						3
<input type="checkbox"/> 8. Side-arm Hot Water Heater			1			
<input type="checkbox"/> 9. Faucets Fitted with Aerator Restricting Flow to 2.0 gpm						1
<input type="checkbox"/> 10. Install Real Time Water Use Read Out						5
Total Points Possible in Plumbing = 28		0				

J. Heating, Ventilation & Air Conditioning		Possible Points				
<input type="checkbox"/> 1. Install Carbon Monoxide Alarm(s) (look for Canada CSA Standard)	M		M			
<input type="checkbox"/> 2. Ground-source Heat Pump			5			
<input type="checkbox"/> 3. Install Zoned, Hydronic Radiant Heating with Slab Edge Insulation			3			
<input type="checkbox"/> 4. Install Sealed Combustion Units						
a. Furnaces			2			
And/Or b. Water Heaters			2			
OR c. Boilers			2			
<input type="checkbox"/> 5. Mechanical Equipment Centrally Located			1			
<input type="checkbox"/> 6. Sealed Mechanical Room for Non-sealed Combustion Units			1			
<input type="checkbox"/> 7. Install High Efficiency HVAC Filter (MERV 6-13)			1			
<input type="checkbox"/> 8. Gas Fireplaces						
a. None			2			
b. Install Sealed Gas Fireplaces with Efficiency Rating Exceeding 60%			1			
<input type="checkbox"/> 9. Install Effective Exhaust Systems in Bathrooms and Kitchens						
a. Install ENERGY STAR® Bathroom Fans Vented to the Outside			1			
b. All Bathroom Fans Are on Timer or Humidistat			2			
c. Install Kitchen Range Hood Vented to the Outside			1			
<input type="checkbox"/> 10. Install Mechanical Fresh Air Ventilation System (Maximum 3 Points)						
a. Install Whole House Fan with Variable Speeds			1			
b. Automatically Controlled Integrated Ventilation System			2			
c. Automatically Controlled Integrated System with Variable Speed Control			3			
d. Any Whole House Ventilation System That Meets ASHRAE 62.2			2			
e. Install Air-to-Air Heat Exchanger that meets ASHRAE 62.2			3			
Total Points Possible in Heating, Ventilation & Air Conditioning = 18		0				

K. Electrical		Possible Points				
<input type="checkbox"/> 1. Exterior Lighting Minimized (5500 lumens or less) to Meet International Dark Sky Association Standard for Nighttime Light Pollution	M	M				

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<input type="checkbox"/> 2. Hard-wired Fixtures are Supplied with ENERGY STAR®-qualified Self-ballasted CFLs Prescriptive Path: a. 10% of all installed fixtures are supplied with bulbs that meet the requirement b. 20% of all installed fixtures are supplied with bulbs that meet the requirement						
	M		M			
			3			
<input type="checkbox"/> 3. Lighting Efficiency Packages Prescriptive Path: a. 50% of total number of fixtures in interior rooms are ENERGY STAR®-qualified b. 50% of total number of outdoor fixtures are ENERGY STAR®-qualified OR Prescriptive or Performance Path: c. Comply with the ENERGY STAR® Advanced Lighting Package (ALP)						
			2			
			2			
			5			
<input type="checkbox"/> 4. Natural Day Lighting a. Design for high use rooms to be on the South facing side of home b. Design for medium/low use rooms to be on North side of home						
			2			
			2			
<input type="checkbox"/> 5. Light Tubes (Points per light tube, Max 6 points)			2			
<input type="checkbox"/> 6. Efficient Light Controls a. Install dimmers b. Install motion detecting light switches						
			1			
			1			
<input type="checkbox"/> 7. LED Lighting			2			
<input type="checkbox"/> 8. Real-time Electrical Read Out			5			
Total Points Possible in Electrical = 23	0					

L. Insulation		Possible Points
<input type="checkbox"/> 1. Inspect Quality of Insulation Installation before Applying Vapor Barrier	M	M
<input type="checkbox"/> 2. Install Batt Insulation with no Added Formaldehyde (> 50% of all insulation) a. Walls and/or Floors b. Ceilings		
		2
		2
<input type="checkbox"/> 3. Install Insulation with 75% Recycled Content a. Walls b. Ceilings		
		2
		2
<input type="checkbox"/> 4. Blown/Sprayed Insulation (≥ 50% of all insulation) a. Walls b. Ceilings		
		2
		2
<input type="checkbox"/> 5. HCFC-free Rigid Foam Insulation		2
Total Points Possible in Insulation = 10	0	

M. Renewable Energy		Possible Points
<input type="checkbox"/> 1. Sun tempered Design		2
<input type="checkbox"/> 2. Passive Solar Space Heating That Includes: A) South facing glazing, B) Properly sized overhangs and C) Installation of appropriately sized thermal mass for glazing a. ≥10% of Home Heating Load b. ≥25% of Home Heating Load c. ≥40% of Home Heating Load		
		4
		8
		12
<input type="checkbox"/> 3. Passive cooling a. Vertical shading devices for east and west-facing glass And/Or b. Reflective films on east and west-facing glass or use windows with a SHGC of less than 0.45 And/Or c. Radiant heat-reflective barriers installed in attic		
		1
		1
		1
<input type="checkbox"/> 4. Provide 200ft² of South-Facing Roof		1
<input type="checkbox"/> 5. Pre-Plumb for Solar Hot Water Heating		2
<input type="checkbox"/> 6. Install Wiring Conduit for Future Photovoltaic Installation		2
<input type="checkbox"/> 7. Install Solar Water Heating System		10
<input type="checkbox"/> 8. Install Photovoltaic (PV) Panels a. 30% of electric needs OR 1.2 kw		
		4

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	Points Earned	Community	Energy	IAQ/Health	Resources	Water
b. 60% of electric needs OR 2.4 kw			6			
c. 90% of electric need OR 3.6 kw			8			
<input type="checkbox"/> 9. Purchase of 100% Renewable Power						
a. Local/Other Utility			2			
b. Generated Within Routt County			6			
<input type="checkbox"/> 10. Pellet Stove (rated for 2.0 grams per hour of particulate or less)			1			
Total Points Possible in Renewable Energy = 39		0				

N. Flooring		Possible Points				
<input type="checkbox"/> 1. Flooring Adhesives Have <70 gpl VOCs.	M			M		
<input type="checkbox"/> 2. Leave Concrete Exposed as Finished Floor						
a. Minimum 15% of Floor Area					2	
b. Minimum 30% of Floor Area					3	
c. Minimum 50% of Floor Area					4	
<input type="checkbox"/> 3. 90% Recycled-content Ceramic Tile					1	
<input type="checkbox"/> 4. 90% Natural Stone Tile from within a 500 Mile Radius					1	
<input type="checkbox"/> 5. Stone or Ceramic Tile Installed with Plasticizer-free Grout				1		
<input type="checkbox"/> 6. Natural Linoleum				1		
<input type="checkbox"/> 7. FSC-Certified Wood Flooring					2	
<input type="checkbox"/> 8. Wood Flooring						
a. From Reused, Reclaimed or Re-milled Sources					1	
b. From Reused, Reclaimed or Re-milled Sources within 500 Mile Radius					2	
<input type="checkbox"/> 9. Beetle Kill Pine Salvaged Wood Floor (25% minimum)					4	
<input type="checkbox"/> 10. Rapidly Renewable Flooring						
a. Natural Cork					1	
b. Bamboo					1	
<input type="checkbox"/> 11. Natural or Recycled-content Carpet Pad Made from Textile, Carpet, or Carpet Cushion					1	
<input type="checkbox"/> 12. Recycled-content Carpet					1	
<input type="checkbox"/> 13. Carpeting Meets CRI Green Label Plus Requirements (50% Minimum)					2	
<input type="checkbox"/> 14. Natural Fiber Carpet Made with Natural Latex rather than SB (styrene-butadiene) Latex Backing					3	
Total Points Possible in Flooring = 18		0				

O. Finishes		Possible Points				
<input type="checkbox"/> 1. Low-VOC Caulk and Construction Adhesives (<70 gpl VOCs) used for All Adhesives	M			M		
<input type="checkbox"/> 2. Design Entryways to Reduce Tracked in Contaminants				1		
<input type="checkbox"/> 3. Elimination of All Particleboard and MDF Inside Building Envelope						
a. Subfloor				1		
b. Stair Treads				0.5		
c. Cabinets				1		
d. Countertop Substrate				1		
e. Interior Trim				0.5		
f. Shelving				1		

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<input type="checkbox"/> 4. Environmentally Preferable Materials used for Interior Finish: A) FSC-Certified Wood, B) Reclaimed (within a 500 mile radius), C) Rapidly Renewable, D) Recycled-Content, E) Finger-Jointed, or F) Beetle Kill Pine						
a. Cabinets (50% Minimum)					1	
b. Interior Trim (50% Minimum)					1	
c. Shelving (50% Minimum)					1	
d. Doors (50% Minimum)					1	
e. Countertops (50% Minimum)					1	
<input type="checkbox"/> 5. All Particleboard Sealed with 2 Coats of Sealer				1		
<input type="checkbox"/> 6. 100% Agricultural Waste Board						
a. countertops				1	1	
b. cabinets				1	1	
c. shelving				1	1	
<input type="checkbox"/> 7. 90% Recycled-content Ceramic Tile (non-flooring)					1	
<input type="checkbox"/> 8. 90% Natural Stone from within 500 Mile Radius (non-flooring)					1	
<input type="checkbox"/> 9. Low VOC, Water-Based Wood Finishes (<250 gpl VOCs) used on All Wood Finished Surfaces				2		
<input type="checkbox"/> 10. Low-VOC or Zero-VOC Paint used on All Painted Surfaces						
a. Low-VOC Interior Wall/Ceiling Paints (<50 gpl VOCs (Flat) and <150 gpl VOCs (Non-Flat))				1		
b. Zero-VOC Interior Wall/Ceiling Paints (<5 gpl VOCs (Flat))				2		
<input type="checkbox"/> 11. After Installation of Finishes, Test of Indoor Air Shows Formaldehyde Level <27 ppb				5		
Total Points Possible in Finishes = 25		0				

P. Landscaping	Possible Points					
<input type="checkbox"/> 1. Fire-Safe Landscaping Techniques per FireWise						
a. No surface vegetation within 15 feet of building		1				
b. Thinning of fuels surrounding home		1				
c. Ladder fuels removed up at least 6 feet from the ground		1				
d. Defensible space around home		1				
Passive Solar Landscape Design						
<input type="checkbox"/> 2. Plant Shade Trees						
a. All New Plants Have Trunk, Base, or Stem Located At Least 36 Inches from Foundation			2			
And						
b. Landscaping that Shades 75% of East and West Facing Glazing During the Summer Season (June-August)			2			
<input type="checkbox"/> 3. Design Vegetative Wind Breaks or Channel as Appropriate to Local Conditions			2			
Xeriscaping						
<input type="checkbox"/> 4. Addition of Compost to and Aeration of Soil						1
<input type="checkbox"/> 5. Compost from Local Landfills					1	
<input type="checkbox"/> 6. Mulch All Planting Beds to the Greater of 2 Inches						1
<input type="checkbox"/> 7. Construct Water-Efficient Landscapes						
a. No Invasive Species Are Planted	M					M
b. 75% of Plants Are Native species						2
<input type="checkbox"/> 8. Group Plants by Water Needs (Hydrozoning)						2

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<input type="checkbox"/> 9. Minimize Turf Areas in Landscape Installed by Builder						
a. All Turf Will Have a Water Requirement Less than or Equal to Tall Fescue, Buffalo Grass, Blue Gama	M					M
b. Turf Shall Not Be Installed on Slopes Exceeding 10% or in Areas Less than 8 Feet Wide						1
c. Turf is ≤33% of Landscaped Area (Not to Exceed Footprint of Home)						2
d. Turf is ≤10% of Landscaped Area (Not to Exceed Footprint of Home)						3
<input type="checkbox"/> 10. Install High-Efficiency Irrigation Systems						
a. System Uses Only Low-Flow Drip, Bubblers, or Low-Flow Sprinklers	M					M
b. Rain sensor installed on irrigation system						1
OR c. System Has Smart (Weather-Based) Controllers						1
<input type="checkbox"/> 11. Site-rock Reclaimed						
a. Reused on Site					1	
b. All Rock Kept on Site					2	
<input type="checkbox"/> 12. 50% Salvaged or Recycled-Content Materials used for 50% of Non-Plant Landscape Elements					2	
Total Points Possible in Landscaping = 27		0				

Q. Innovation	Possible Points
<input type="checkbox"/> 1. Alternative Fuel Infrastructure for Vehicle Use	5
<input type="checkbox"/> 2. Innovation By Design	5
Total Points Possible in Innovation = 10	

Total Points Possible = 321

Points Earned
PROJECT SCORING TOTAL 0

By my signature, I certify that I do not wish to proceed in accordance with the Green Building Program Guidelines.
X
Home Builder/Applicant Signature and Date
or
By my signature, I certify that I wish to proceed with the program and will perform all Action Items checked above in accordance with the Green Building Program Guidelines.
X
Home Builder Signature and Date
By my signature, I certify that I have performed all Action Items checked above in accordance with the Green Building Program Guidelines. (to be signed at time of C.O.)
X
Home Builder Signature and Date